

FIGURE 1: Alignment of Delta-4 16:0 Desaturases From English Ivy (SEQ ID NO:2) and Coriander (gi 417819)

SEQ ID 2	MALKLN-----FQCKKNHPAAFAKSP
417819	MAMKLNALMTLQCPKRN--MFTRIAPQAGRVRSKVSMASTLHASPLVFDKLGKAGR-----PEVDELFNSLEGWARDNILLVHLKSV
SEQ ID 2	EKSQWQPDYLPDPVSDGFEEQVRELRRRAKEIPDDYFVVLVGD
417819	ENSWQWQPDYLPDPTSDAFEDQVKEMRERAKDIPDEYFVVLVGD
SEQ ID 2	LNKYLILSGRVDMRKIEKTIQYLLIGSGMDIKSENSPYLGF
417819	LNKYLILSGRVDMRMIEKTIQYLLIGSGMDTKTENC
SEQ ID 2	IVEKLAIEIDPDTTVIAFADMMRKKITMPAHLMYDGSDELLFKHFTAVAQ
417819	IVEKLAIEIDPDTTVIAFSDMMRKKIQMPAHAMYDGSDDMLFKHFTAVAQ
SEQ ID 2	ELGPKIRRVVEEKVQGKEKKKAEHPVSFSWIFNRELKI
417819	SLAAKIRRVVEEKVQGKEKK--AVLPVAFSWIFNRQIII

Figure 2: Alignment of Acyl Carrier Proteins From English Ivy (SEQ ID NOs:4 and 6) and Coriander (gi 5669599)

SEQ ID 4	MASVTASSISFTSIASSLKQNGQGLAKSSISLSVNGKSF
SEQ ID 6	MASVTASSISFTSIASSLKQNGQGLAKSSISLSVNGKSF
5669599	MAAFTASSVSFTPLSISLNQTKGFARGSVSIPAKAKSFGALT
SEQ ID 4	ADSLDTVEIVMGLKEEFGIKRG-----KK
SEQ ID 6	ADSLDTVEIVMGLEEEFGISVEEESAQTATVQDAADLIEKLVEKKE
5669599	ADSLDTVEIVMGLEEEFGISVEEESAQTATVQDAADLIEKLCEKKE